INDUSTRIAL TECHNOLOGY EDUCATION 1 AND 2 (EXPLORATORY)

DIRECTIONS: Evaluate the student using the applicable rating scales below and check the appropriate box to indicate the degree of competency. The ratings 3, 2, 1, and N are not intended to represent the traditional school grading system of A, B, C, and D. The description associated with each of the ratings focuses on the level of student performance or cognition for each of the competencies listed below.

PERFORMANCE RATING

3 - Skilled--can perform task independently with no supervision
2 - Moderately skilled--can perform task completely with limited supervision
1 - Limitedly skilled--requires instruction and close supervision
N - No exposure--has no experience or knowledge of this task

COGNITIVE RATING

3 - Knowledgeable--can apply the concept to solve problems
2 - Moderately knowledgeable--understands the concept
1 - Limited knowledge--requires additional instruction
N - No exposure--has not received instruction in this area

Unit A. The Nature of Technology

3   2   1   N
__ __ __ __ 1. Develop an understanding of the characteristics and scope of technology.
__ __ __ __ 2. Develop an understanding of the core concepts of technology.
__ __ __ __ 3. Develop an understanding of the relationships among technologies and the connections between technology and other fields of study.

Unit B. Technology And Society

3   2   1   N
__ __ __ __ 1. Develop an understanding of the cultural, social, economic, and political effects of technology.
__ __ __ __ 2. Develop an understanding of the effects of technology on the environment.
__ __ __ __ 3. Develop an understanding of the role of society in the development and use of technology.
__ __ __ __ 4. Develop an understanding of the influence of technology on history.

Unit C. Design

3   2   1   N
__ __ __ __ 1. Develop an understanding of the attributes of design.
__ __ __ __ 2. Develop an understanding of engineering design.

__ __ __ __ 3. Develop an understanding of the role of troubleshooting, research and development, invention and innovation, and experimentation in problem solving.

Unit D. Abilities For A Technological World

3   2   1   N
__ __ __ __ 1. Develop the abilities to apply the design process.
__ __ __ __ 2. Develop the abilities to use and maintain technological products and systems.
__ __ __ __ 3. Develop the abilities to assess the impact of products and systems.

Unit E. The Designed World

3   2   1   N
__ __ __ __ 1. Develop an understanding of and be able to select and use medical technologies.
__ __ __ __ 2. Develop an understanding of and be able to select and use agricultural and related biotechnologies.
__ __ __ __ 3. Develop an understanding of and be able to select and use energy and power technologies.
__ __ __ __ 4. Develop an understanding of and be able to select and use information and communication technologies.
__ __ __ __ 5. Develop an understanding of and be able to select and use transportation technologies.
__ __ __ __ 6. Develop an understanding of and be able to select and use manufacturing technologies.
__ __ __ __ 7. Develop an understanding of and be able to select and use construction technologies.